

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-10 (Canceled).

Claim 11 (Currently Amended) A weather vane for measuring orientation of wind, comprising:

a rotary base;

a vane sensitive to the wind and fixed by a joint to the base; and

a heater[[,]] ~~shaped as a parallelepiped, inserted into the vane~~ having a first dimension extending in one direction and a second dimension extending in second direction, wherein the vane is has a hollow interior cavity and ~~has~~ an insertion orifice situated at the base of the vane with both the insertion orifice and the hollow interior cavity having a shape having a which is large enough ~~such that~~ size in at least the first and second directions to permit the heater ~~can~~ to be directly inserted into the hollow interior cavity of the vane through the base of the vane without the heater completely filling the hollow interior cavity.

Claim 12 (Previously Presented) The weather vane as claimed in Claim 11, wherein the heater is pressed against interior walls of the hollow vane by a spring preferably placed on just one of the lateral faces, or at the rear, of this heater, and the spring preferably is a crinkle spring made of bronze.

Claim 13 (Previously Presented) The weather vane as claimed in Claim 11, wherein the heater comprises ceramic blocks of varying thickness held against two electrodes

themselves wrapped in an electrically insulating film, the electrodes preferably being made of brass.

Claim 14 (Previously Presented) The weather vane as claimed in Claim 13, wherein the electrically insulating film is coated with a thermally conducting grease.

Claim 15 (Previously Presented) The weather vane as claimed in Claim 11, wherein the vane has a vent situated opposite the insertion orifice.

Claim 16 (Previously Presented) The weather vane as claimed in Claim 11, wherein the heater comprises ceramic blocks with a positive temperature coefficient.

Claim 17 (Previously Presented) The weather vane as claimed in Claim 11, wherein the heater has a thickness that varies according to an internal geometry of the hollow of the vane.

Claim 18 (Previously Presented) The weather vane as claimed in Claim 11, wherein the heater has, in a profile perpendicular to a direction of insertion, an ogive shape.

Claim 19 (Previously Presented) The weather vane as claimed in Claim 11, wherein the vane is in a shape of a tube, inside which the heater is inserted, and in that a thickness of the tube is minimized for a leading edge of the vane.

Claim 20 (Previously Presented) The weather vane as claimed in Claim 19, wherein a thickness of the tube is minimized in a region of a leading edge of the vane.